

COOLING METHOD FOR FUEL CELL

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Abstract

PURPOSE: To prevent the temperature reduction on both sides of a tile by making the flow quantity of gas flowing astride the tile different at the center portion and at both sides.

CONSTITUTION: The distance between recessed grooves 5 for forming gas passages formed on both front and rear faces of a separator 6 is made dense at the center and coarse at edge sections on both sides. This separator 6 is used as a partition plate when a tile 1 is pinched by a cathode 2 and an anode 3 from both faces and the oxidizing gas OG is fed to the cathode 2 side and the fuel gas FG is fed to the anode 3 side respectively and cells are laminated. When the temperature at both sides is decreased due to the heat radiation from the end section, this portion is not cooled because the gas quantity flowing through it is small, and the temperature can be increased by this much. The temperature distribution that the temperature at both sides is not reduced is thereby obtained, a fuel cell with high performance is obtained, and the total flow quantity of gas can be decreased.

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